

2006 U.S. EPA, NSF, and NIOSH STAR Nanotechnology Environmental Implications Progress Review Workshop

Crowne Plaza Washington - National Airport
1480 Crystal Drive
Arlington, VA 22202

November 13–14, 2006

Tentative Agenda

DAY 1, Monday, November 13, 2006

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| 8:30 – 8:50 a.m. | Welcome
Dr. Gary J. Foley, Director, National Center for Environmental Research,
Office of Research and Development (ORD), U.S. Environmental
Protection Agency (EPA) |
| 8:50 – 9:00 a.m. | EPA Introduction
Stephen A. Lingle, Division Director, Environmental Engineering Research
Division, ORD, EPA |
| 9:00 – 9:25 a.m. | EPA White Paper Update
Kathryn Gallagher, Science Policy Council, EPA |
| 9:25 – 9:45 a.m. | National Environmental and Health Implications (NEHI), National
Nanotechnology Initiative (NNI)
Clayton Teague, Director, National Nanotechnology Coordination Office,
Nanoscale Science, Engineering, and Technology Subcommittee, NEHI,
NNI |
| 9:45 – 10:05 a.m. | <i>BREAK</i> |
| 10:05 – 10:20 a.m. | National Science Foundation (NSF)
Dr. Cynthia J. Ekstein, Bioengineering and Environmental Systems
Division, NSF |
| 10:20 – 10:35 a.m. | National Institute for Occupational Safety and Health (NIOSH)
Dr. W. Allen Robison, Office of Extramural Programs, NIOSH |
| 10:35 – 10:50 a.m. | National Institute of Environmental Health Sciences (NIEHS)
Dr. Sally S. Tinkle, Division of Extramural Research and Training,
NIEHS |
| 10:50 – 11:10 a.m. | Bhavik Bakshi—Life Cycle Energy Analysis of Carbon Nanofibers |

DAY 1, Monday, November 13, 2006 (Continued)

11:10 – 11:30 a.m.	Alison Elder
11:30 – 11:50 a.m.	Patrick O'Shaughnessy—Assessment Methods for Nanoparticles in the Workplace
11:50 a.m. – 1:00 p.m.	<i>LUNCH</i>
1:00 – 1:20 p.m.	Peter Perrotta—Effects of Nanomaterials On Human Blood Coagulation
1:20 – 1:40 p.m.	Judy Xiong
1:40 – 2:00 p.m.	Ron Turco
2:00 – 2:20 p.m.	Bahman Asgarian— Mechanistic Dosimetry Models of Nanomaterial Deposition in the Respiratory Tract
2:20 – 2:40 p.m.	Kent Pinkerton—Aerosolization of Respirable Carbon Nanotubes: A Potential Health Hazard?
2:40 – 3:00 p.m.	<i>BREAK</i>
3:00 – 3:20 p.m.	Jake McDonald—Development and Characterization of Inhalation Atmospheres for Assessment of Nanoparticle Toxicity
3:20 – 3:40 p.m.	Chris Theodorakis
3:40 – 4:00 p.m.	Nancy Monteiro-Riviere
4:00 – 4:20 p.m.	Terry Gordon
4:20 – 4:40 p.m.	Vicki Grassian—Inhalation Exposure Study of Titanium Dioxide Nanoparticles With a Primary Particle Size of 2-5 nm
4:40 – 5:30 p.m.	ORD Laboratory Panel Chair: Kevin Dreher
5:30 p.m.	<i>ADJOURN</i>

DAY 2, Tuesday, November 14, 2006

8:00 – 8:20 a.m.	Mamadou Diallo
8:20 – 8:40 a.m.	Jean-Claude Bonzongo

DAY 2, Tuesday, November 14, 2006 (Continued)

8:40 – 9:00 a.m.	David Barber—Biochemical, Molecular, and Cellular Responses of Zebrafish Exposed to Metallic Nanoparticles
9:00 – 9:20 a.m.	Paul Westerhoff —The Fate, Transport, Transformation and Toxicity of Manufactured Nanomaterials in Drinking Water
9:20 – 10:00 a.m.	John Veranth—Responses of Lung Cells to Metals in Manufactured Nanoparticles
10:00 – 10:20 a.m.	<i>BREAK</i>
10:20 – 10:40 a.m.	Mason Tomson—Fate and Transport of Nano-C ₆₀ in Soils and the Use of Nano-Iron Oxides for Arsenic Removal from Drinking Water
10:40 – 11:00 a.m.	Robert Hurt—Bioavailability of Carbon Nanotube Catalyst Residues
11:00 – 11:20 a.m.	Kurt Pennell—Fate and Transport of C ₆₀ Nanomaterials in Unsaturated and Saturated Soils
11:20 – 11:40 a.m.	Linsey Marr—Characterization of Aqueous C ₆₀ in Water and Air
11:40 a.m. – 12:00 noon	Pat Holden
12:00 noon – 1:00 p.m.	<i>LUNCH</i>
1:00 – 1:20 p.m.	P. Lee Ferguson
1:20 – 1:40 p.m.	Jaehong Kim—Fate and Transformation of C ₆₀ Nanoparticles in Water Treatment Processes
1:40 – 2:00 p.m.	Paul Bertsch—The Bioavailability, Toxicity, and Trophic Transfer of Manufactured ZnO ₂ Nanoparticles: A View From the Bottom
2:00 – 2:20 p.m.	Tohren Kibbey —Hysteretic Accumulation and Release of Nanomaterials in the Vadose Zone
2:20 – 2:40 p.m.	CP Huang—Toxicity of Photocatalytic Nano-TiO ₂ Particles to Selected Aquatic Organisms
2:40 – 2:50 p.m.	Wrap-Up
2:50 p.m.	<i>ADJOURN</i>